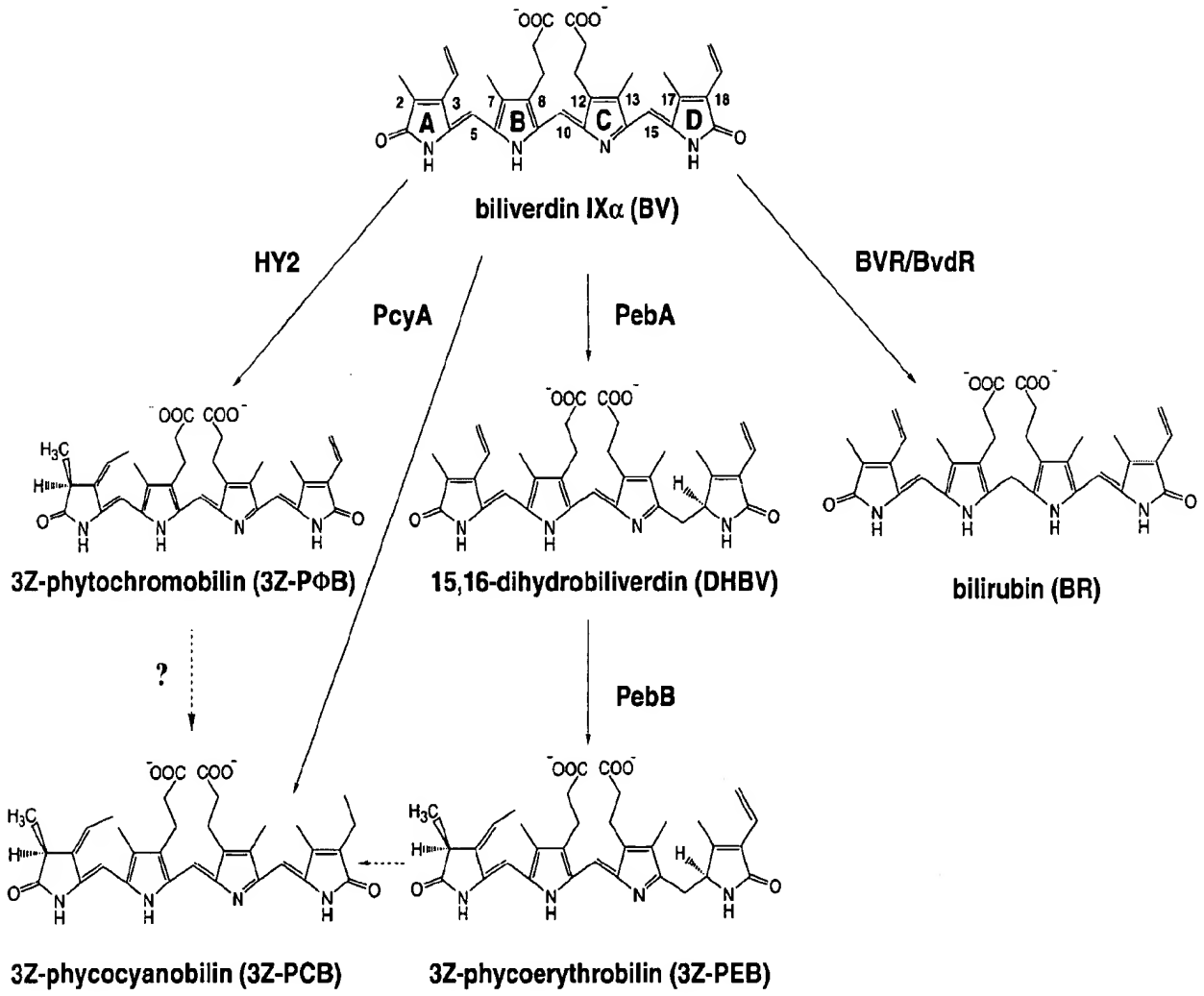

Fig. 1

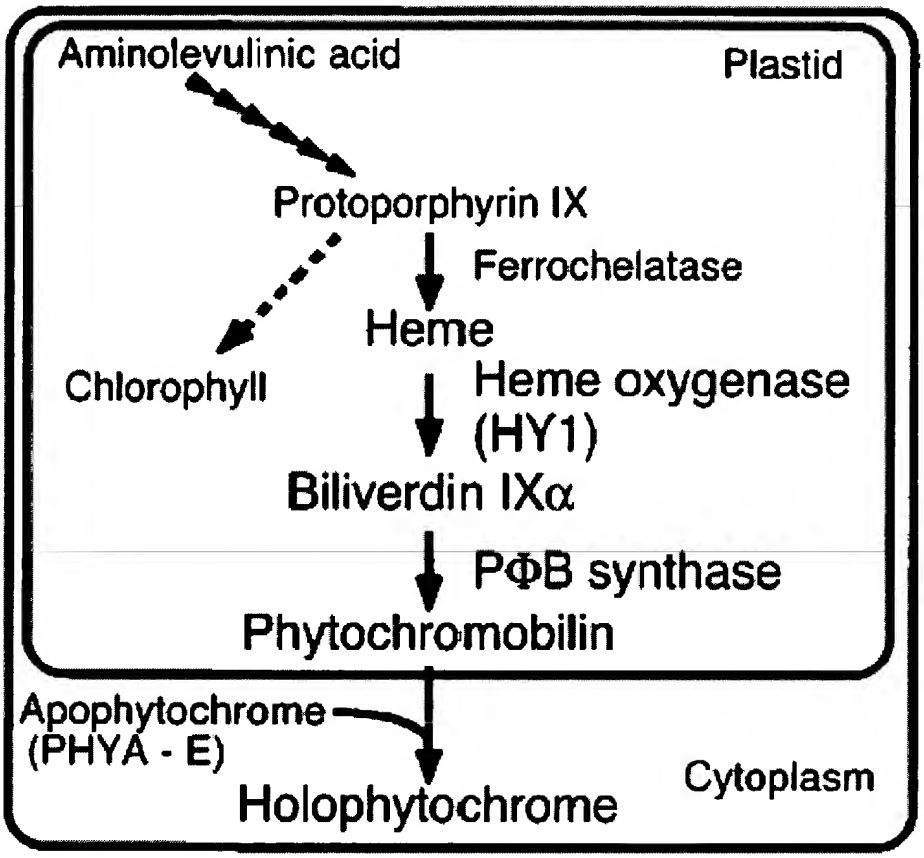

Fig. 2

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gaattccccacgtcaacgtgactgtgcattccacgtggcggatgtgggccctatagttgg    60
accatgactcggacggatgttgaaattcattgtcgttgccaattgcgtttgtctcactga   120
aactgtgaaaattttatctcttttatagataaAGAATCTTGCTTTTTTCAGTTTTCAGTA   180
TGAAGAAGAATTGAAGAGAGTGTCCGAGGAAGGAGACCTTTGGTTTCAGTTTGTGAGTCT   240
TGTTGTAATGGCTTTATCAATGGAGTTTGGGTTTTCAATTGGGTCATGCTTCAAGGCACC   300
       M  A  L  S  M  E  F  G  F  S  I  G  S  C  F  K  A  P
AAACCCACCTGTTCTAATCTCTGCAAGCCCTAATAAGATCAATTTCACGTTGAGAAGGAG   360
 N  P  P  V  L  I  S  A  S  P  N  K  I  N  F  T  L  R  R  R
AAAGAAAAGATTCTTACTTAGAGTCTCTGCTGTGTCGTATAAGGAATTCGCAGAGTCTGC   420
                          hy2-106 *****
 K  K  R  F  L  L  R  V  S  A  V  S  Y  K  E  F  A  E  S  A
TTTAGAAGAAACCAGGAAAAGGATCGTTCTTGAACCTTCACATCTCCAGgtatatgcaat   480
 L  E  E  T  R  K  R  I  V  L  E  P  S  H  L  Q
tacatttcgttagtgtagtgggaggattatatttctcattgtttcttgctgtgaattttg   540
ggtaaattgatttgagttgtcattaggaaccaaacaaataactttactgttatagactgc   600
ttatataagtaaaagttcagattttgtttttctaatcacgaaactgtttcagGAAAAGTA   660
                                                      E  K  Y
TAGTAGCATGACAGGACTAGATGGTAAGACCGAACTTCAAATGCTTGCTTTTAAATCTTC   720
 S  S  M  T  G  L  D  G  K  T  E  L  Q  M  L  A  F  K  S  S
AAAGATTAGACTCTTGAGGAGTATGGCAATAGAGAATGAGACAATGCAGgtttaacttca   780
 K  I  R  L  L  R  S  M  A  I  E  N  E  T  M  Q
gcagtacaaactgattgctttagtcccatttccttactttcaattgattgattgtttgta   840
          hy2-105 **************************
tcttcgcttagGTCTTTGACTTTGCGGGTTTCATGGAGCCTGAGTATGATACTCCCATAT   900
                                          hy2-1,hy2-104  T
             V  F  D  F  A  G  F  M  E  P  E  Y  D  T  P  I  F
TCTGTGCTAACTTTTTCACATCTACCAACGTTAACATAGTTGTATTgtaagttatcttct   960
  C  A  N  F  F  T  S  T  N  V  N  I  V  V  L
agttatgctggagttatcaggtctgtattgtccaaactgatgttcaatattttactgtat  1020
```

Fig. 3B

```
gttcttctttagGGACCTTAATCCTTTGCATCAGTTGACTGACCAGACGGATTACCAAGA 1080
            D  L  N  P  L  H  Q  L  T  D  Q  T  D  Y  Q  D

CAAGTATTATAACAAGATAATGTCCATATATCACAAATATGCTGAGgtgaccacaagaat 1140
 K  Y  Y  N  K  I  M  S  I  Y  H  K  Y  A  E

acaccaaattactcaattgcaagtaaacctaatgctgaggtgtaaatgactgatcttgag 1200

atttatttgcagACTTTCCCATGGGGAGGGAAATTGACTGGTGAATCCATAAAGTTTTTC 1260
                hy2-101  A
             T  F  P  W  G  G  K  L  T  G  E  S  I  K  F  F

TCGCCTTTGGTGATGTGGACTAGGTTTTCGTCTAGCAAAGAAAAACATAAGGCTTTGTTC 1320
S  P  L  V  M  W  T  R  F  S  S  S  K  E  K  H  K  A  L  F

TCTGCGTTTCTAGAGTACTATCAGgtatatactcagcggccaaaagctaaggttttattg 1380
S  A  F  L  E  Y  Y  Q

gaaactttgactgagaatctatcatcttcttcctacagGCATGGCTTGAGATGACAATCC 1440
                                hy2-107  a
                                      A  W  L  E  M  T  I  Q

AAGTGAGGGAGGAGATGGAACCATCTCATGTGAGAGCCAATTGTGAAGCACAACACAAGT 1500
  V  R  E  E  M  E  P  S  H  V  R  A  N  C  E  A  Q  H  K  Y

ACCTGACATGGCGAGCACAAAAGgtgatttcatttccttttgtgtaatttgcatgtttga 1560
   hy2-103  A
  L  T  W  R  A  Q  K

acagacactgtatctgtattgttacaatggatattgatttggtgtttgcagGATCCTGGA 1620
                                          hy2-102  a
                                                D  P  G

CATGGTCTTCTTAAAAGATTAGTAGGTGAAGCAAAGGCAAAGgtataaaagatttgatcc 1680
H  G  L  L  K  R  L  V  G  E  A  K  A  K

cattagtgtccccattattaattagcttgtgaagatgttgaaaatgatttgaacaaaatc 1740

agGAGCTGCTAAGGGATTTCCTGTTCAATGGGGTGGATGAGTTAGGCACAAAAACATTCA 1800
  E  L  L  R  D  F  L  F  N  G  V  D  E  L  G  T  K  T  F  I

TTGATTACTTTCCAGAGTACCAAACAGAAGATGGAACTGTAAGCGATAAACGAAGTATCA 1860
  D  Y  F  P  E  Y  Q  T  E  D  G  T  V  S  D  K  R  S  I  I

TTGGGAAGTCATATGAAACTCGTCCATGGGATTTAACAGGACAATTTATCGGCTAACAAT 1920
  G  K  S  Y  E  T  R  P  W  D  L  T  G  Q  F  I  G  ==

GATATATGTGAACAAGTCAGATTTCAGAGTCATCAACACAAGAGGACGTGAACTTAGGGA 1980

AGTAGGAATAAGAAAGAGCAGCATGAGGAGTCTCTCAGGTCTATCTGCATTTCAAGATGA 2040

TTGTTTGAGTTACCATGCATTGTAGTTTTACAAGTGTAGCTCTCAGCCCTTCATCAAAAT 2100

GAGAATCCTCGAGTATGATATGATTTTAATGAAAATGTATTCGTCTCTacctaatcaaca 2160
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Fig. 3B cont'd.

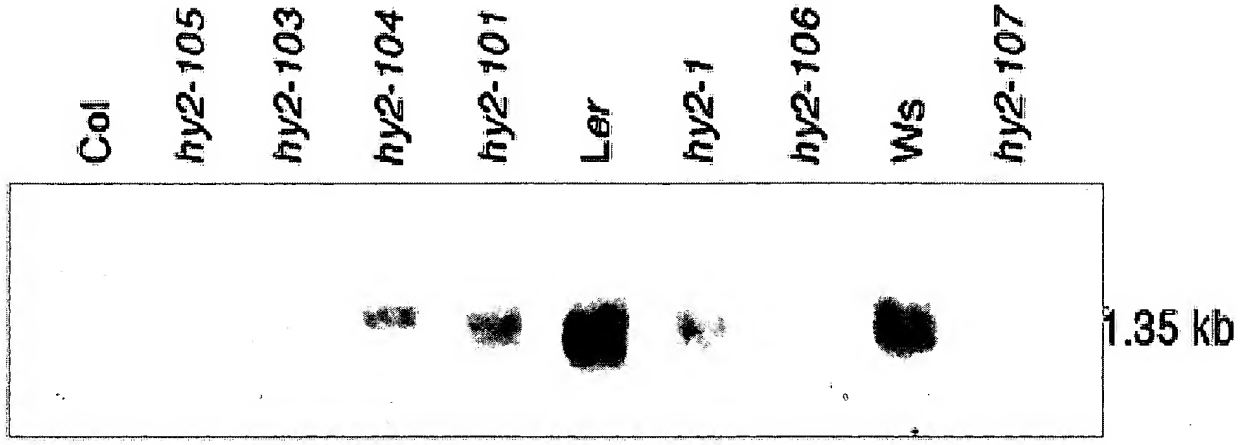

Fig. 4A

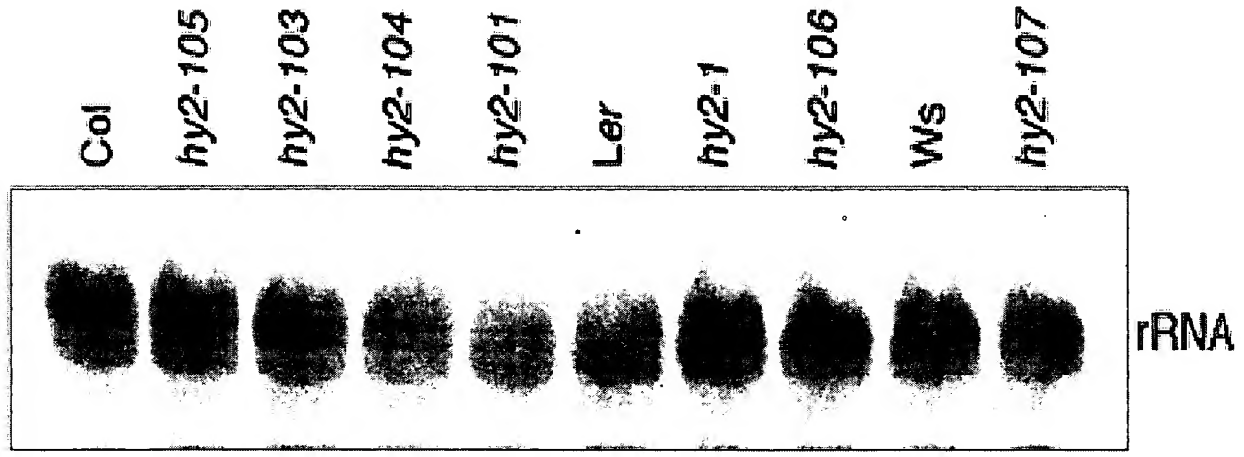

Fig. 4B

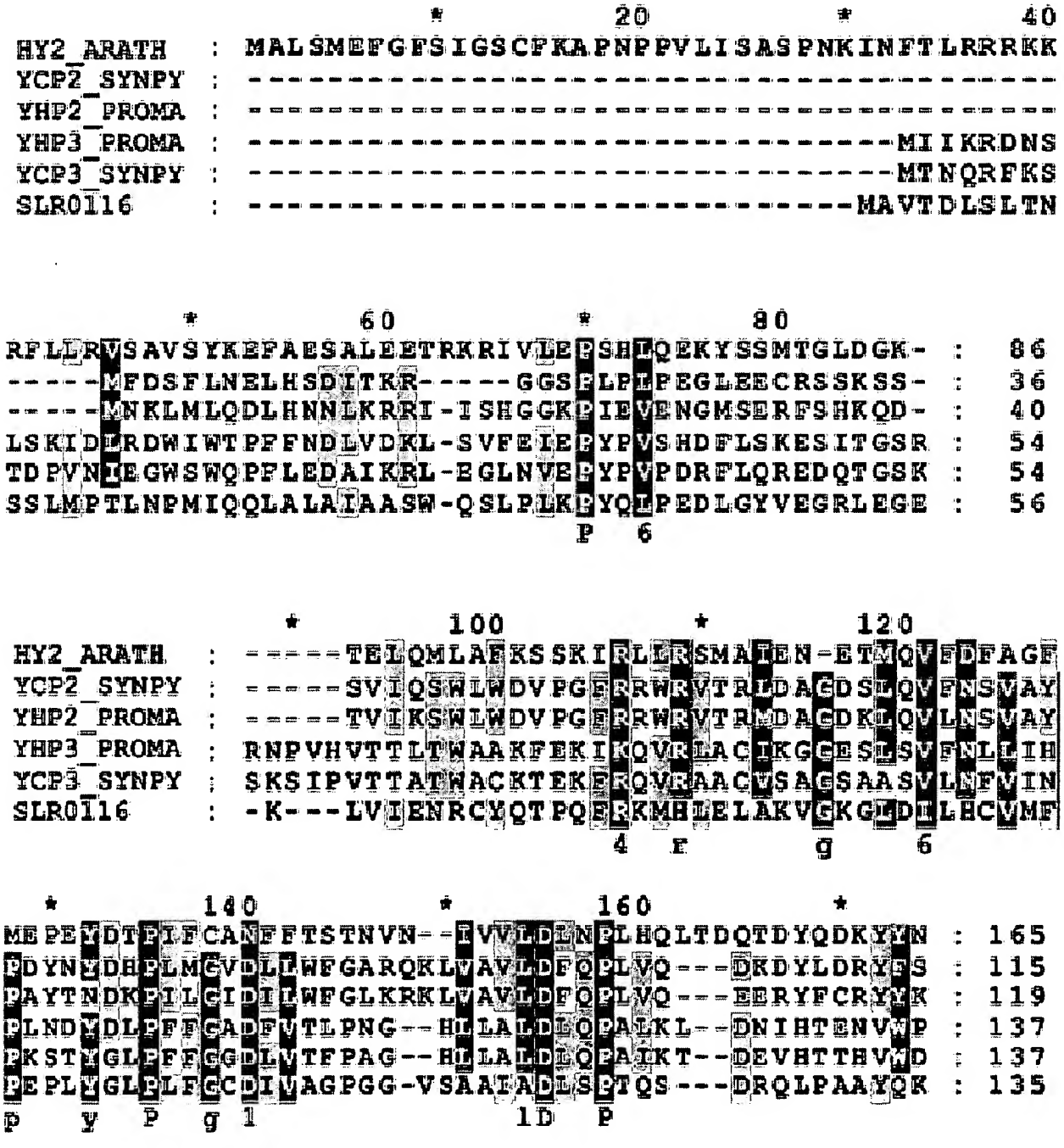

Fig. 5

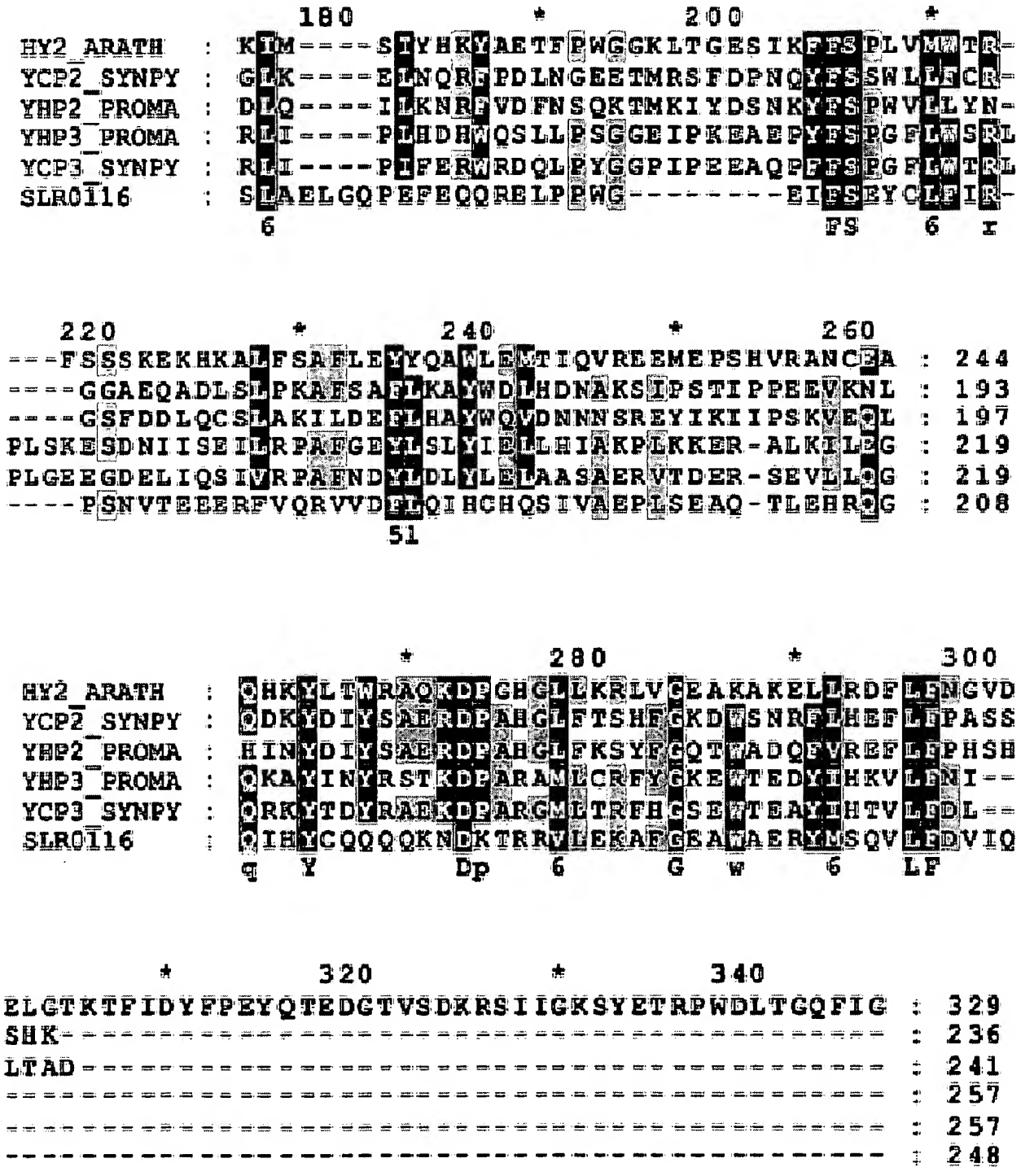

Fig. 5 cont'd.

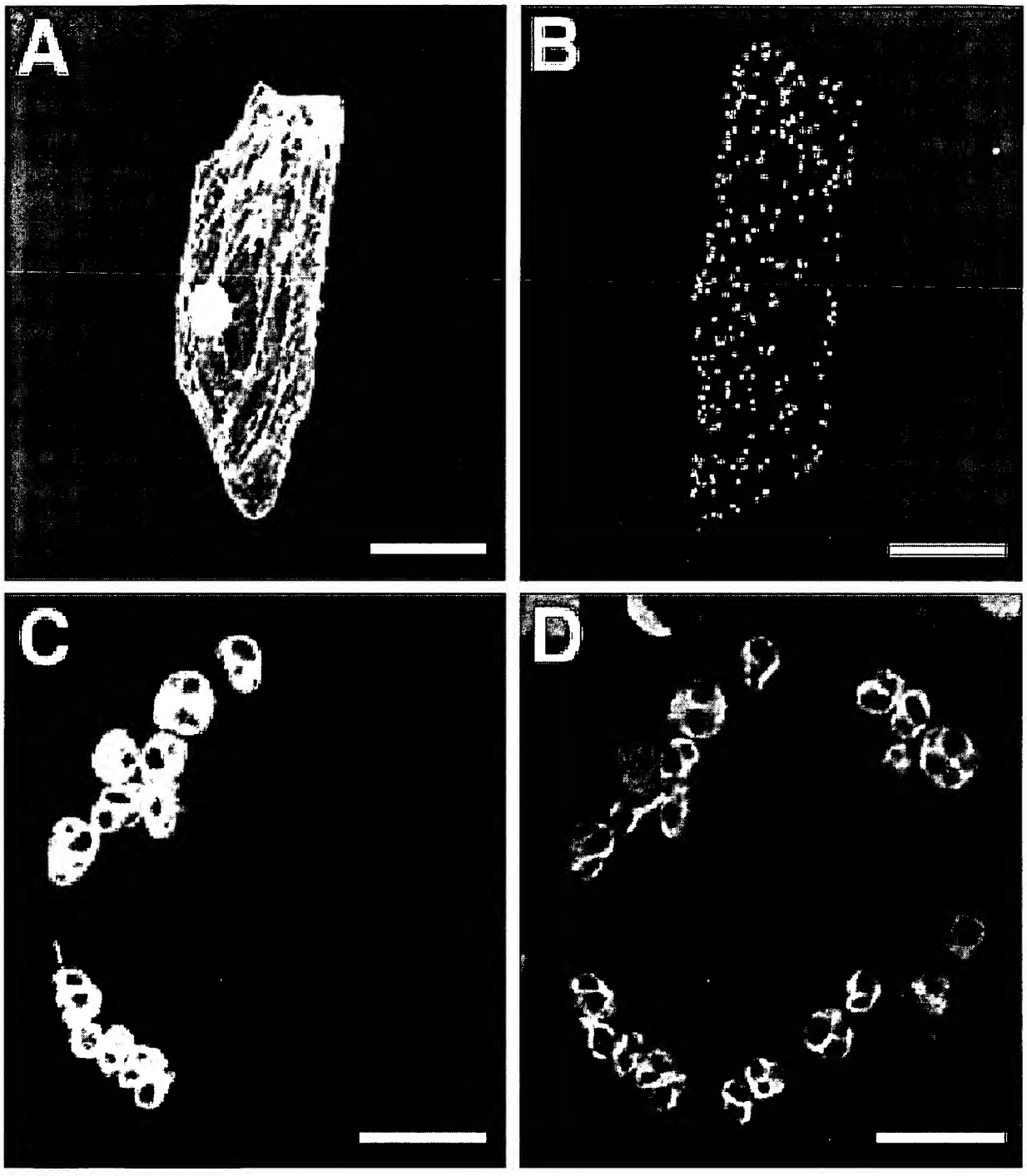

Fig. 6

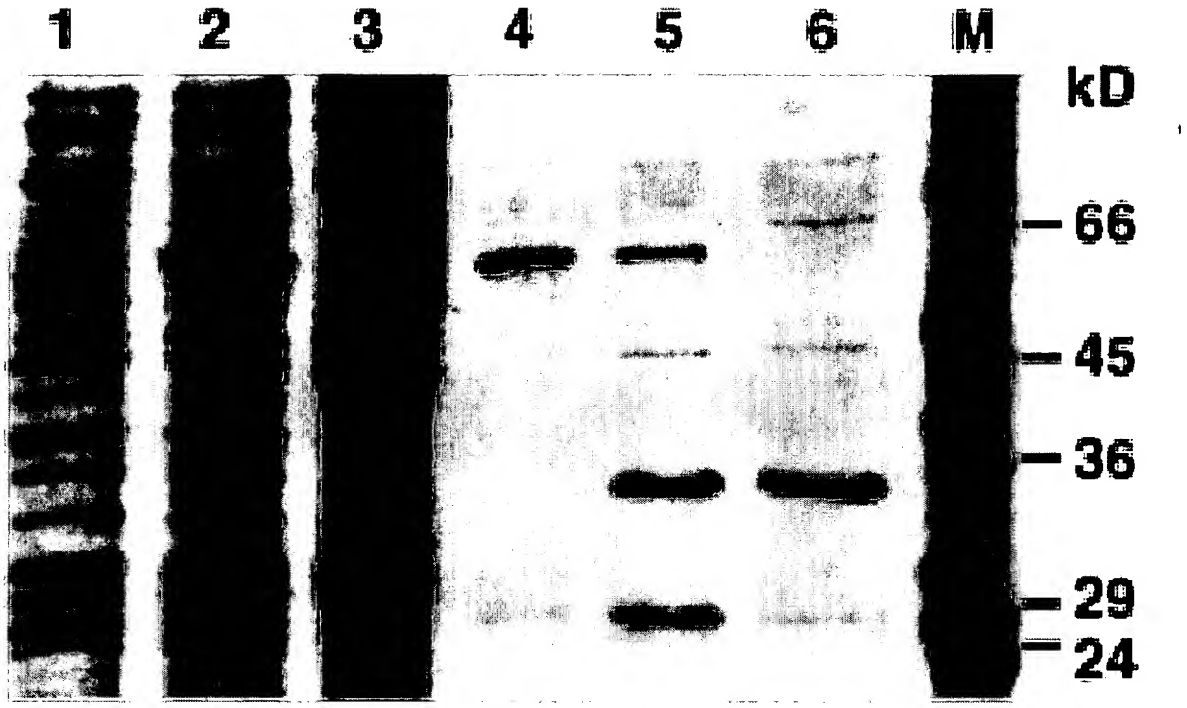

Fig. 7

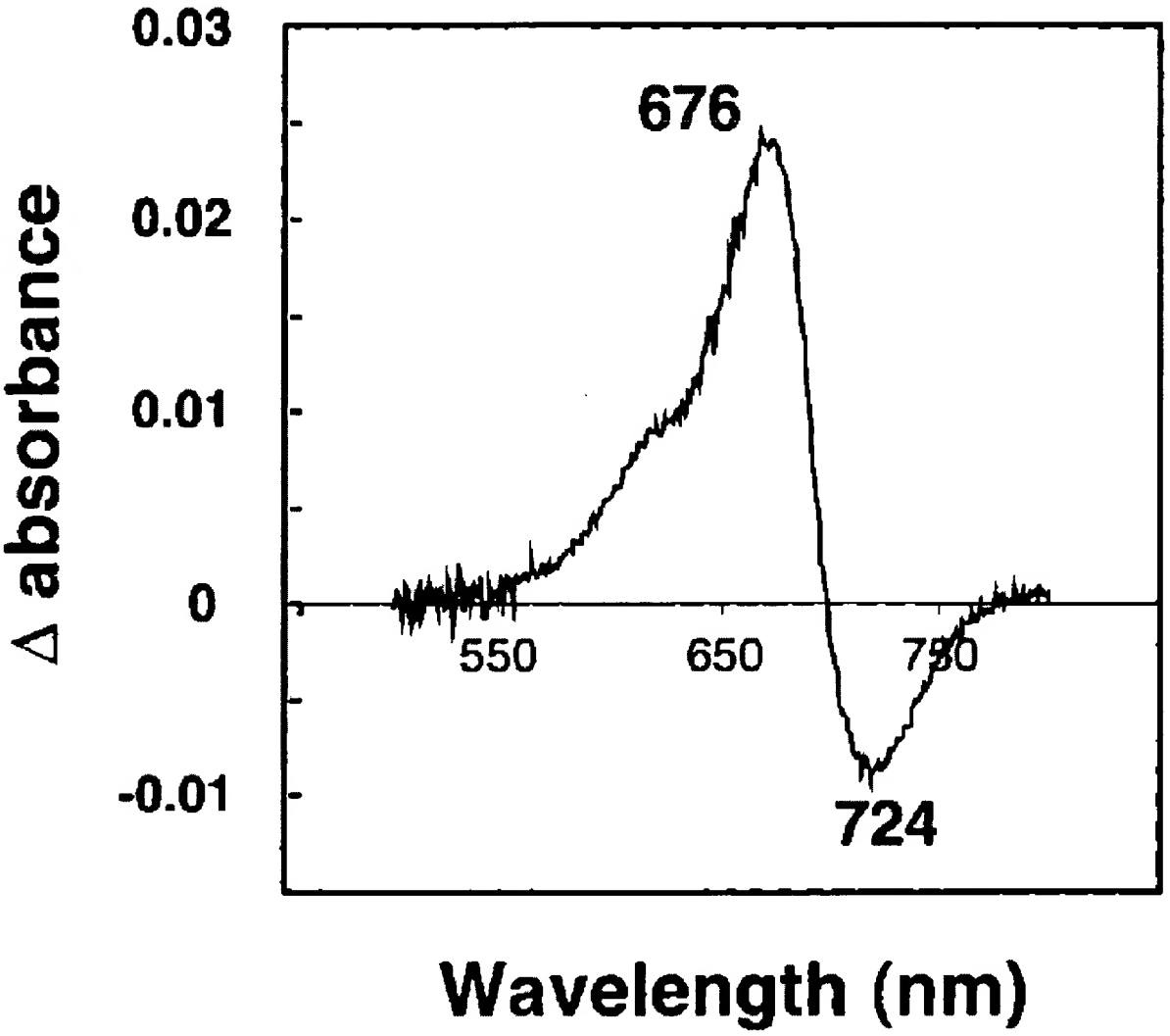

Fig. 8

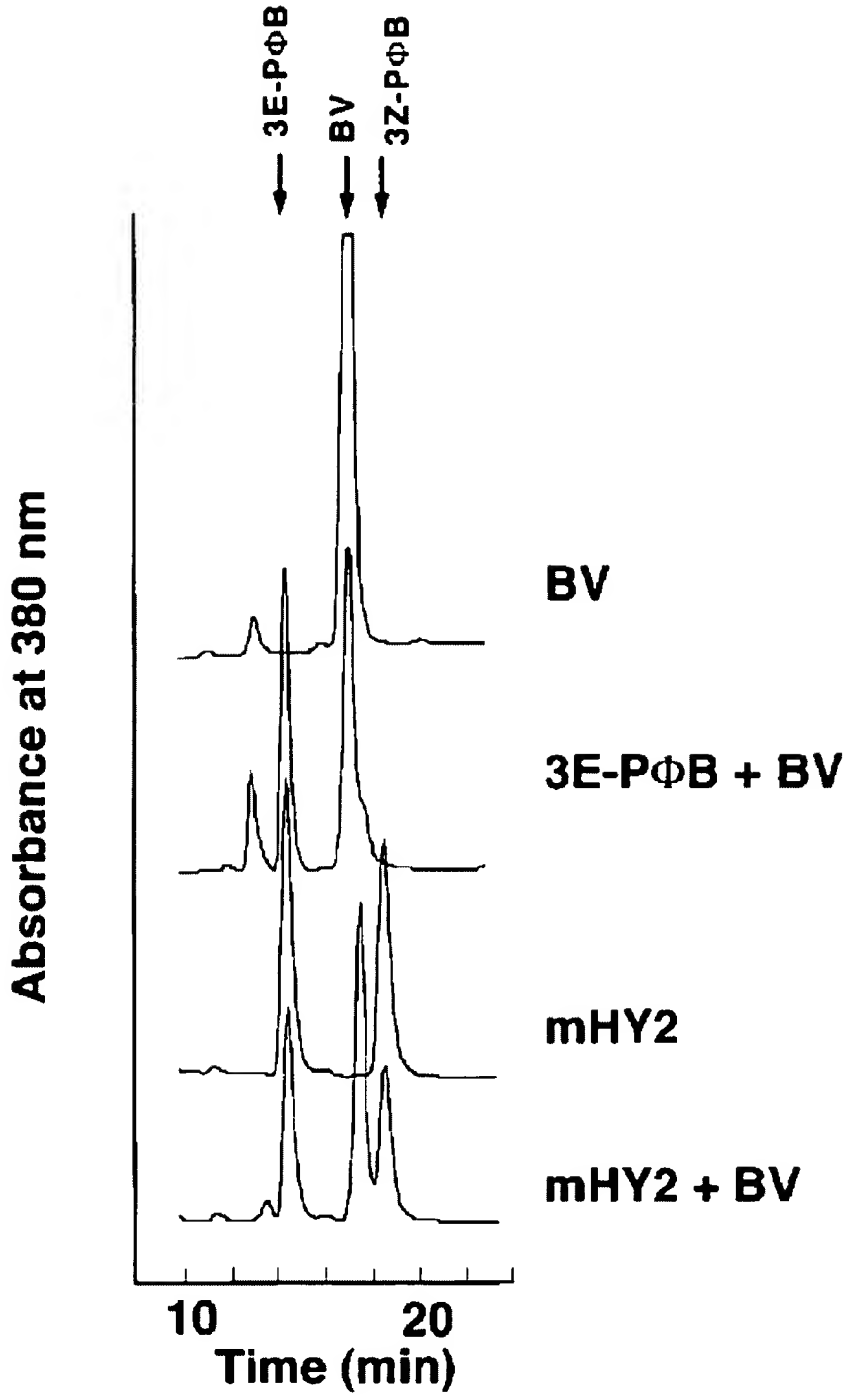

Fig. 9

```
                                *         20        *         40
PcyA_ANASP  : ----------------------------------------
PcyA_NOSPU  : ----------------------------------------
PcyA_SYNY3  : ----------------------------------------
PcyA_SYN81  : ----------------------------------------
PcyA_PROME  : ----------------------------------------
PebA_SYNPY  : ----------------------------------------
PebA_SYN81  : ----------------------------------------
PebA_PROMA  : ----------------------------------------
PebA_PROME  : ----------------------------------------
PebA_NOSPU  : ----------------------------------------MLNSQSPLRNVA
PebB_SYNPY  : ----------------------------------------
PebB_SYN81  : ----------------------------------------
PebB_PROMA  : ----------------------------------------
PebB_PROME  : ----------------------------------------
PebB_NOSPU  : ----------------------------------------
HY2_ARATH   : ------------MALSMEFGFSIGSCFKAPN-PPVLISA
RCCR_ARATH  : MAMIFCNTLYSSSSPSYLSPLTSKPSRFSKNLRPRAQFQS
RCCR_HORVU  : ----------------------------------------

      *         60        *         80        *
------MSLTSIPSLREQQHPLIRQLADCIEEVWHQHLDESPYHLPAEL  :  43
------MSFTSMPSLREQQHPLIRQLADCIEAAWHQHLDESPYHLPDEL  :  43
--MAVTDLSLTNSSLMPTLNPNIQQLALAIAASWQS-LPEKPYQLPEDL  :  46
-------MQSPPSESSSTVAPLIPSLAETIRGAWIGLPEEKPLDADSDF  :  42
-----LNLLSKSLTKTKLIDPLILTLLQNIKVQRSKLNDENCIEVDPKL  :  44
--------------------NFDSFLNELHSDITK-RGGSPLPLPEGL  :  27
--------------------NFDPFLEELQTGIQA-RGGISVEVPAGL  :  27
----------------MNKLMLQDLHNNLKRRIIS-HGGKPIEVENGM  :  31
--------------------NFESLKNFVKTNIE---DLDGKELEISK  :  25
INETCMIAITYFHARVNKSCSMYKPFLEFLEKELFQRFDEQSRVIPFGL  :  64
----MTNQRFKSTDPVNIEGWSWQPFLEDAIKRLEDG-LNVEPYPVPDRF  :  44
---MSIDLRASSLDPVQIPGWRWQPFLDEASAALKP-FNPSPYPIAETF  :  45
----MIIKRDMSLSKIDLRDWENTPFFNDLVDKLSV-FEIEPYPVSHDF  :  44
---------MLIQNTIFYSQEWRWAKFIKFLISQLDN-YHCVEHKIASDF  :  40
------------MNSERSDVTLYQPFLDYAIAYMRSRLDEEPYPIPTGF  :  37
KINFTLRRRKKRFLLRVSAVSYKEFAESALEETRKR-IVEEPSHLQEKY  :  77
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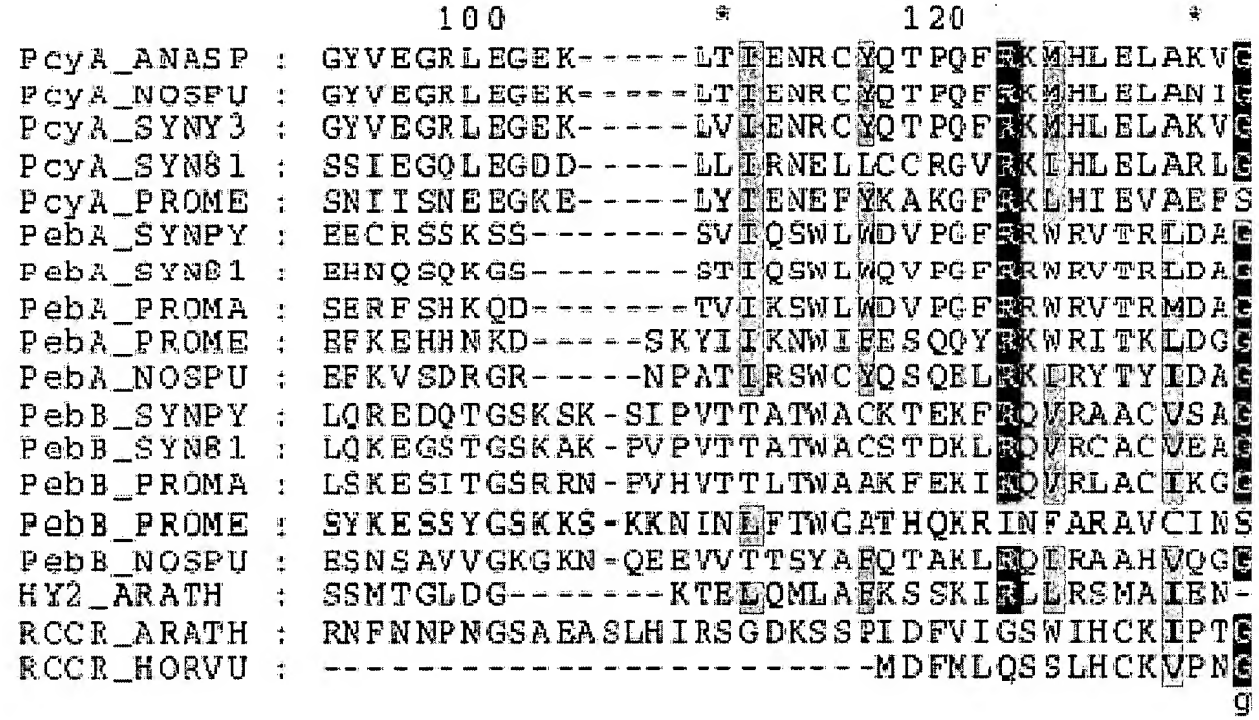
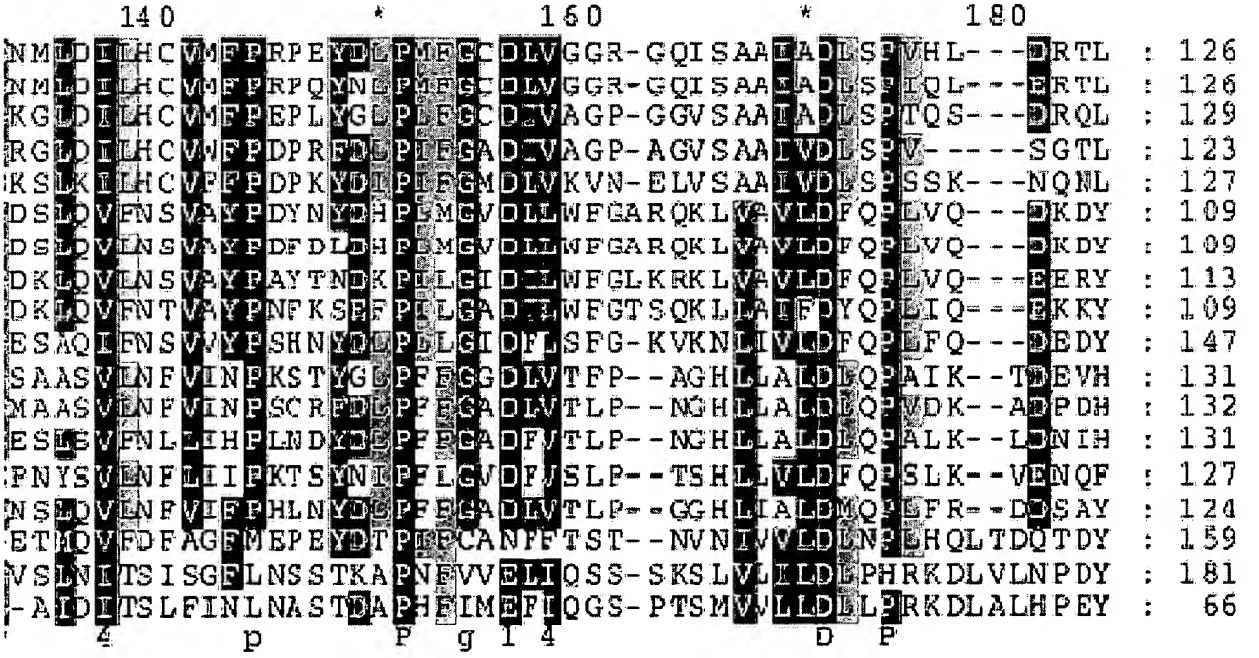
Fig. 10





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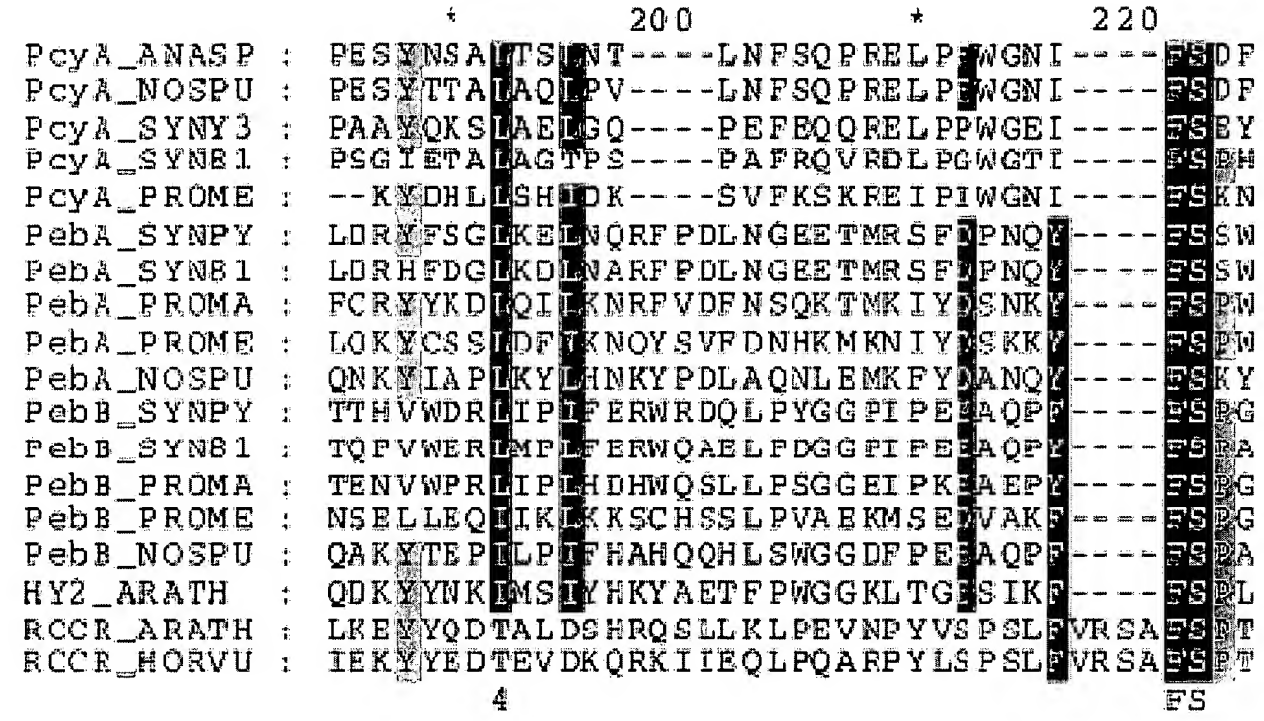

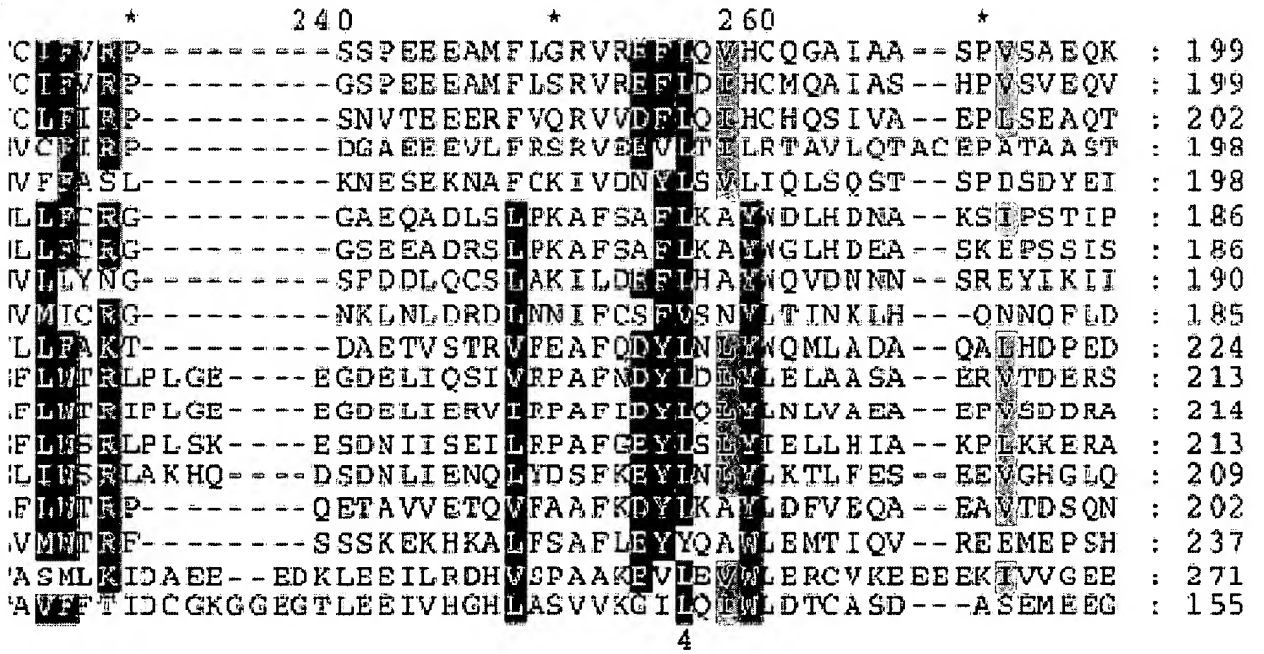

Fig. 10 cont'd.

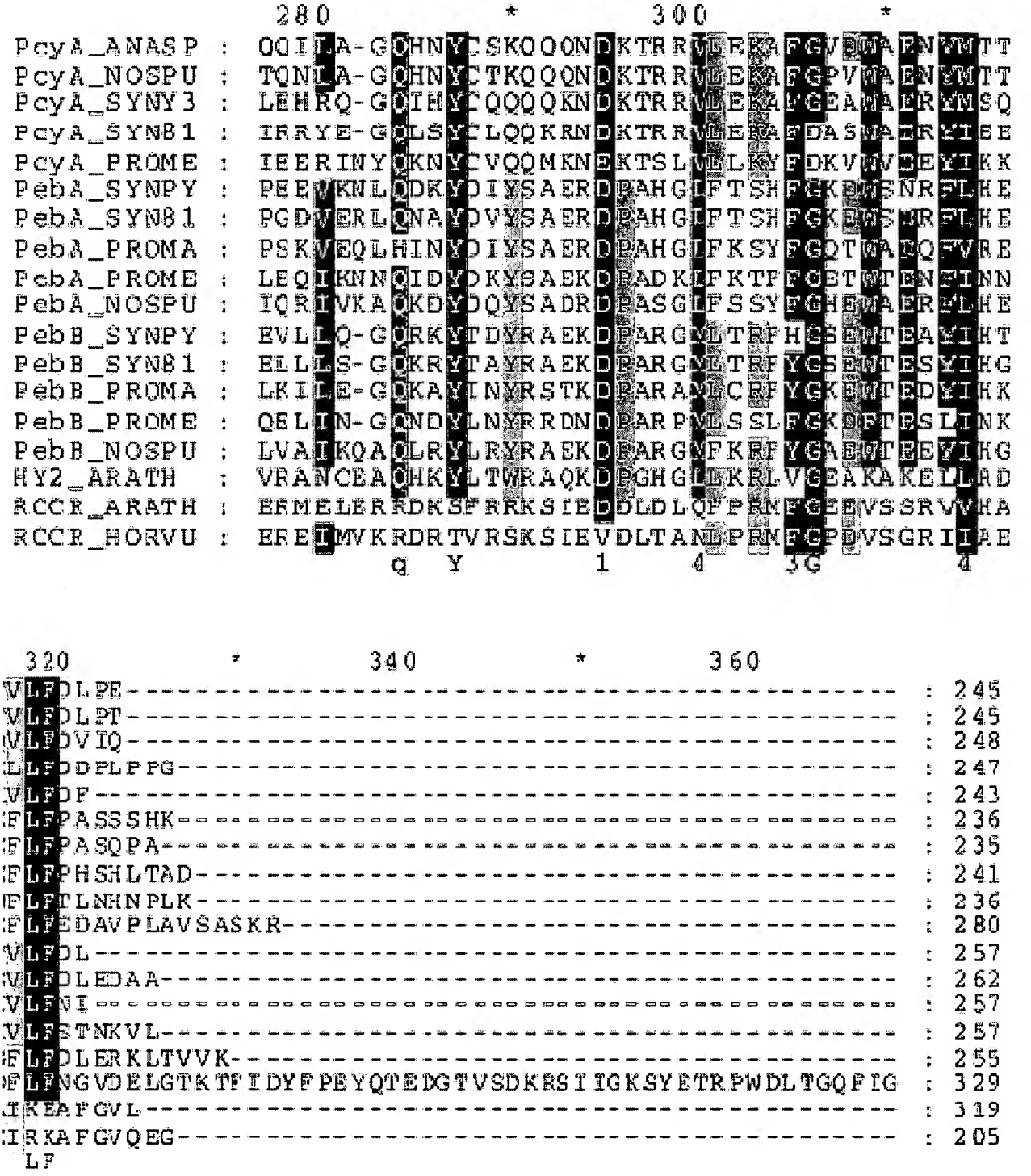

Fig. 10 cont'd.

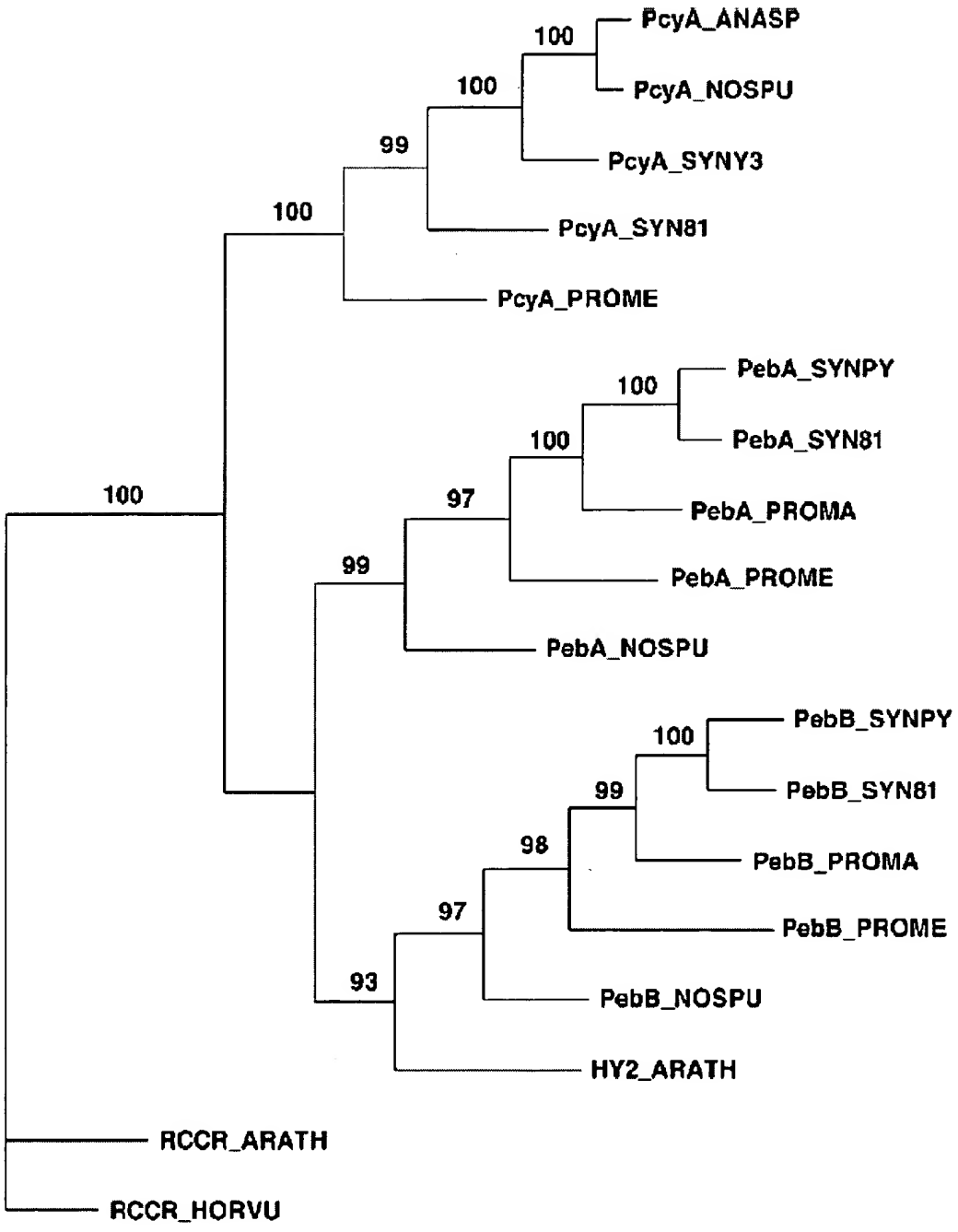

Fig. 11

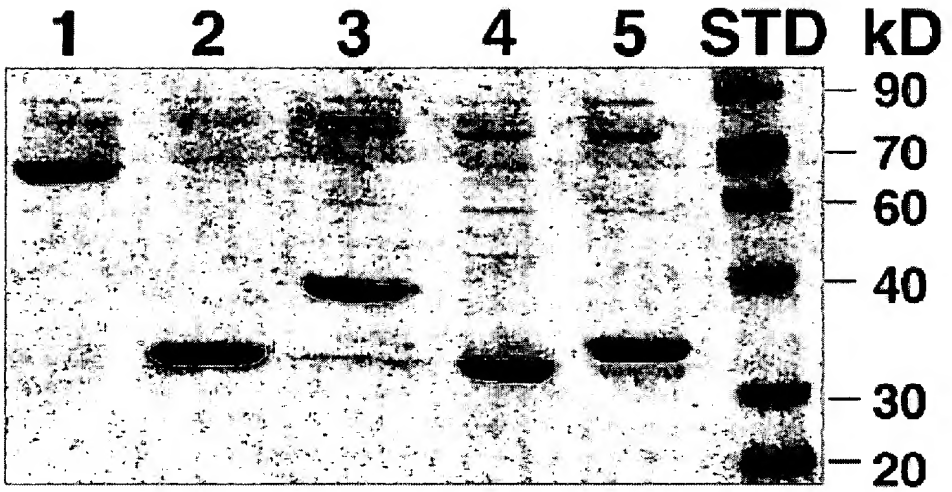

Fig. 12

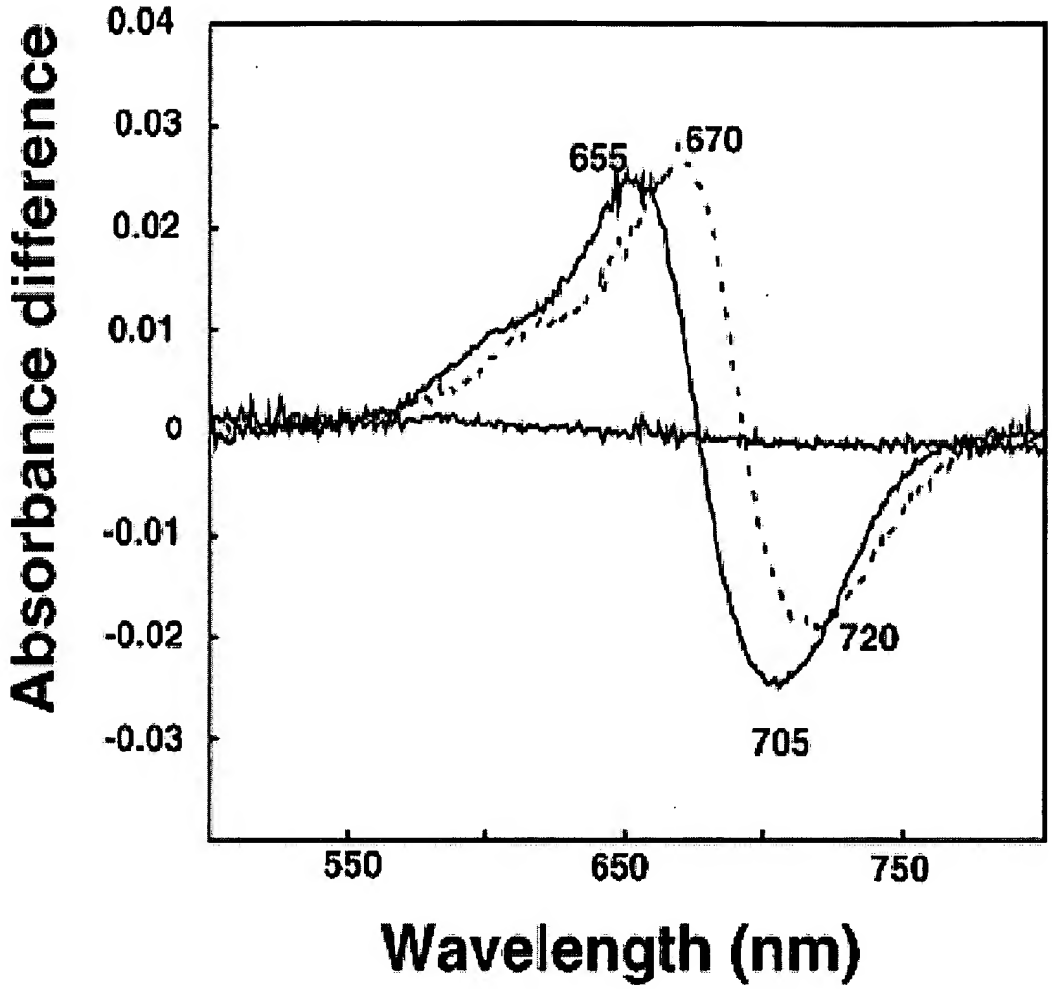

Fig. 13A

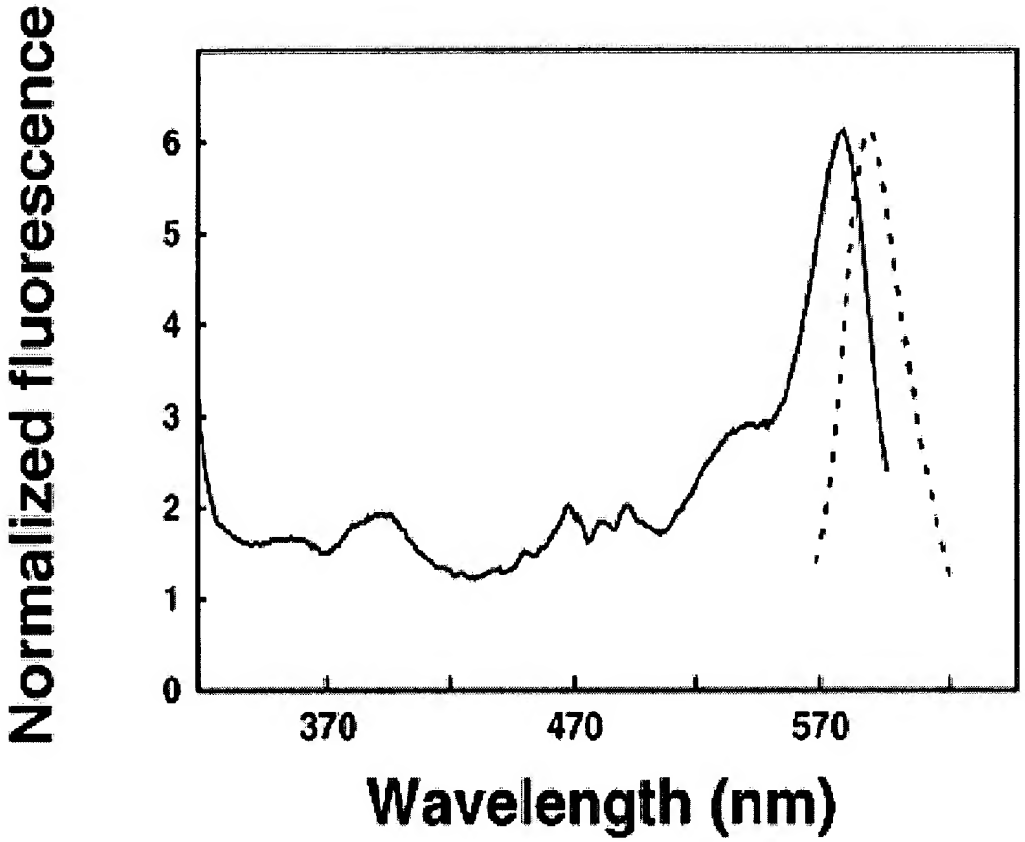

Fig. 13B

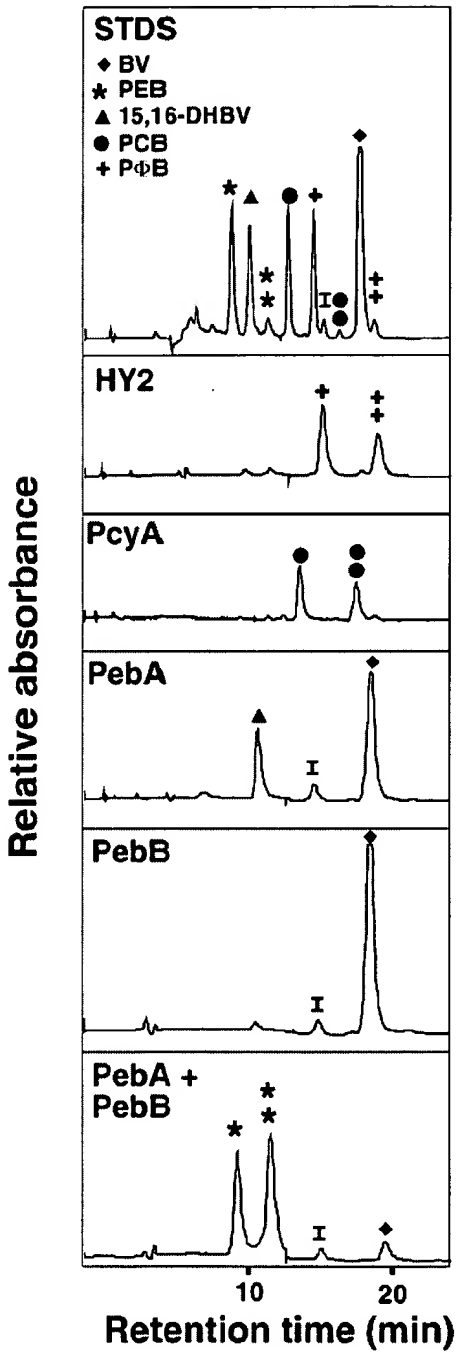

Fig. 14

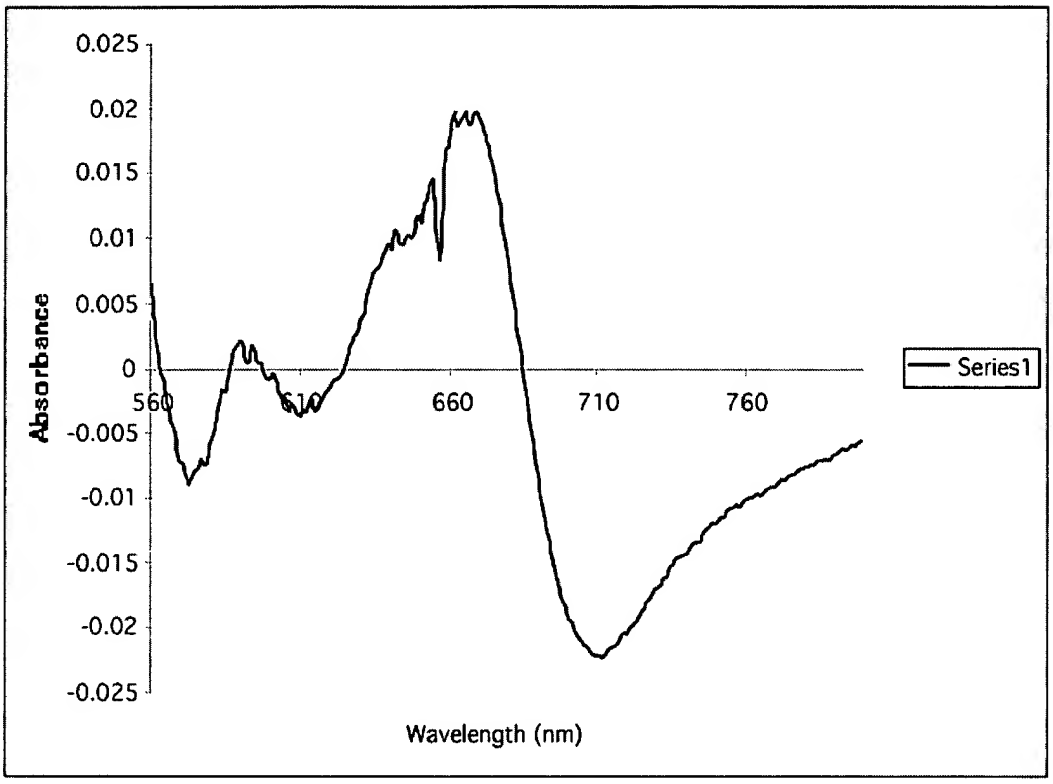

Fig. 15

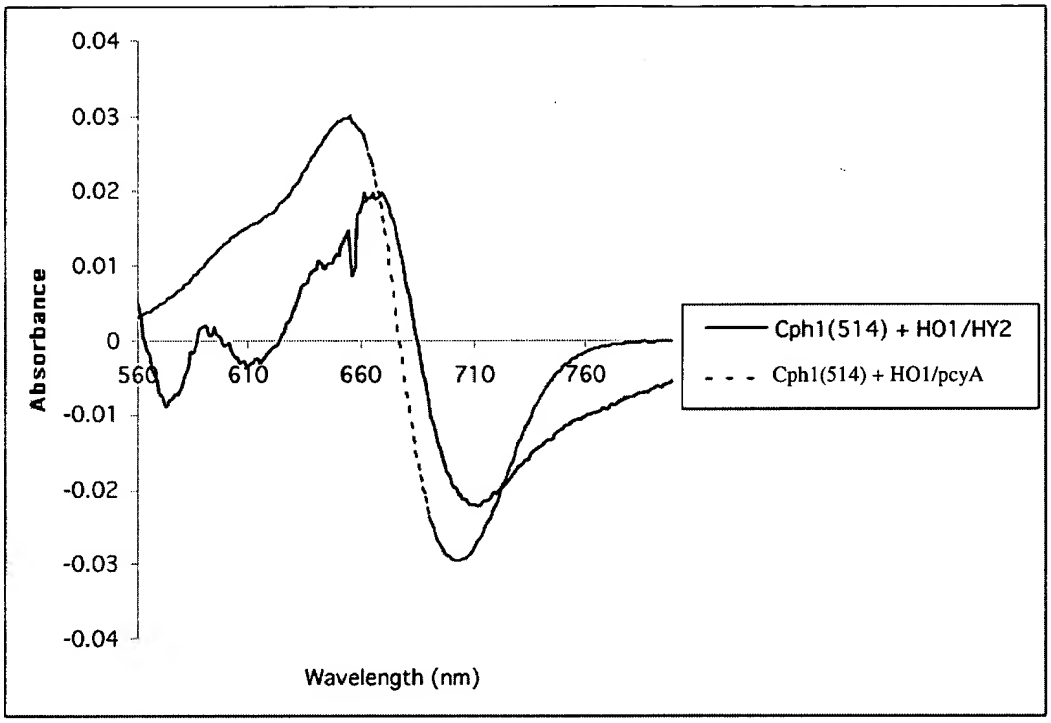

Fig. 16